

INDEX.

A		E	
Armstrong, on steam boilers,	72	Electrotype, the	33
	[81, 281, 328]	Electro-magnetic telegraph,	95, 256
Aycrigg, B., on theory of crank,	136	Explosion on Harlem railroad,	
American Engines in England,	141	Fulton on,	103
Attica and Buffalo railroad	149	English steamers, exaggerated	
Anthracite Furnace,	176, 320	accounts,	105
Archimedes screw steamer,	190	Expansion, error in, average	
Arch of equilibration,	206	pressure of,	133
Armed steam craft for the lakes,	384	Ellet, C. jr., on laws of trade,	227
B			[293, 323, 355]
Bricks, improvement in,	31	Erie Canal, supply of, Prof. J.	
Boiler, Sir James Anderson's,	91	Renwick on,	230, 262
Barometrical measurement,	93	Earthquake in Connecticut,	248
Bionology, system of,	108	Explosions, Armstrong on, 281,	328
Blasting limestone,	119	F	
Boring mill, Merrick & Towne's	186	Fulton on explosion on Harlem	
Bridges, lattice, H. Houpt on,	196	railroad,	103
Brick, manufacture of,	289	Fulton on internal improvements	
Baltimore and Ohio railroad,	318	of New York,	358
C		Farmers, &c., advantages of rail-	
Crank, theory of,	4, 36, 66, 136	roads to,	161
	[202, 325, 358]	Fares, railroad,	225
Cushman, W. McC. on crank		Furnace, form of, adapted to	
motion,	4, 202	fuel,	257
Canal, Farmington, Hampton,		G	
and Hamden,	6	Gaines, Gen., memorial to cong.	14
Coal lands, report on,	39	Great western railroad,	30, 46
Caoutchouc manufacture,	54	Galvanic battery, Smee's	53
Civil engineering in U. S.	68	Georgia railroad and banking	
Compliment,	72	Co's. report,	155, 181
Coach wheel retarder,	107	H	
Canal, Penn. & Ohio, cross cut,	132	Houpt, H., on lattice bridges,	196
Casting, Large,	192	I	
Canal decision,	256	Iron, tables of tenacity of,	8
Cars, self-adjusting,	256	Institution of civil engineers,	25
Cloth of glass,	256		[43, 73]
Cornish engines, T. Wicksted on,	302	Illinois, inter. improvement in,	71
Central railroad,	318, 380	Iron steamers, comparative ad-	
Canal tolls,	319	vantages,	89
Copper, American,	341	Iron, American,	192
D		Iron railroad,	351
Depots and grounds for railroads,	204	Internal improvements of New	
Definition of science,	207	York,	358

K		Railroad travelling, danger of	155
Kyanizing, new mode of,	32	" Advantage to farmers,	161
Klein on Russian railroads,	97	" Contracts, S. S. Lee, on,	162
Kite's patent safety beam	242	" Statistics,	166
L		" Travelling,	167
Liverpool and Manchester R. R.	30	" Herron's plan for,	184
Lamp, Hershel's improvement,	52	" vs. Canals and rivers,	200
Locomotives, 64, 166, 188, 224,	320	" Southern,	215
Locomotive Extraordinary per-		" Fares, low, 225, 317,	346
formance of	154	Roebing, J. A., Theory of the	
Locomotive, new,	223	Crank,	66, 325
Locomotives, trial of Norris and		Rosin, etc., patent for purifying,	221
Lowell,	259	Railroads, Boston and the west,	[229, 243
Locomotive Gowan and Marx,		Renwick, Prof., on supplying	
trial of,	296	the Erie canal.	230, 262,
Locomotives, English,	298	Railroads in the U. States,	279, 290
Limestone, blasting,	119		[342, 365
Lardner, resistance on railroads,	142	" Traffic on,	345
Lee, S. S. on railroad contracts,	163	S	
Laws of Trade, C. Ellet, Jr., on,		Steam ship President,	21, 125
[227, 293, 323,	355	" New	32
Louisville, Charleston and Cin-		" English, exaggerated	
cinnati R. R. rep., 285, 307,	334	accounts,	105
M		" Archimedes screw,	190
Meteorological observations,	1	" Atlantic,	226
Meteorological record,	3, 96	Steam engine, oscillating,	31
Mine bucket, plan for,	45	" Theory of,	177
Marine engines, expansion etc,	114	Safety valves, new,	32
Menai bridge, railroad over,	127	Soldering, autogenous,	41
Marine engines British and Am.	169	Scientific work, deficiencies of,	80
N		Smoke Burning,	81
New York, railroads in,	9	St. Petersburg & Zarskoe Selo	
New York & Albany R. R., 23,	222	railroad,	97
New York & Harlem railroad		Soap, frauds in,	107
memorial of,	60	South Carolina canal and rail-	
New York, population of,	167	road report,	171
North Union railway, C. Vig-		Spark arrester,	217
noles' report,	238	Safety beam, Kite's,	242
Norwich and Worcester R. R.	319	Steam frigates,	314
O		Steam navigation,	383
On safety valves, etc.,	368	T	
P		Thames tunnel,	50
Patents, English, notices of,	65	V	
Postage, penny system,	129	Vacuum, erroneous measure of,	105
Population of New York,	167	Ventillation of coaches and rail-	
Prints, Griffiths patent,	189	road cars,	354
Pavements, wooden,	193, 321	W	
Peat, compressed,	219, 243, 377	Windsor castle,	29
R		Walnut tree, use of,	96
Railroads in State of New York,	9	Wooden pavement,	193, 321
Railroad receipts, 32, 272, 287, 317		Wicksteed, on Cornish engines,	302
[319, 346		Western railroad,	318
" Cost of,	42	Y	
" Over Menai bridge,	127	Youghal bridge,	253
" Resistance on,	146		

